
Materials Compatibility and Fire Safety in Glovebox

Materials Used in Glovebox

Stainless

Teflon

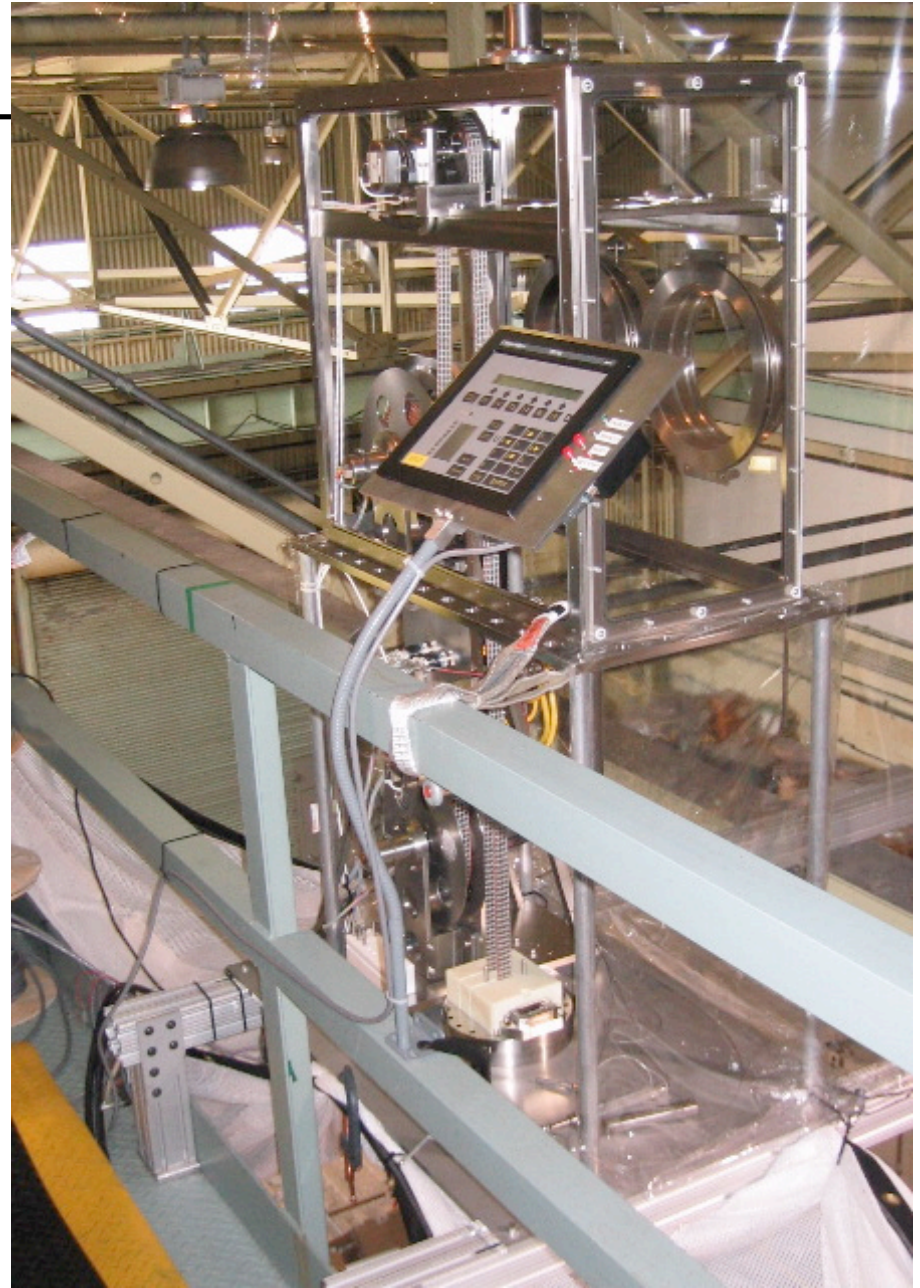
Nylon

Gold

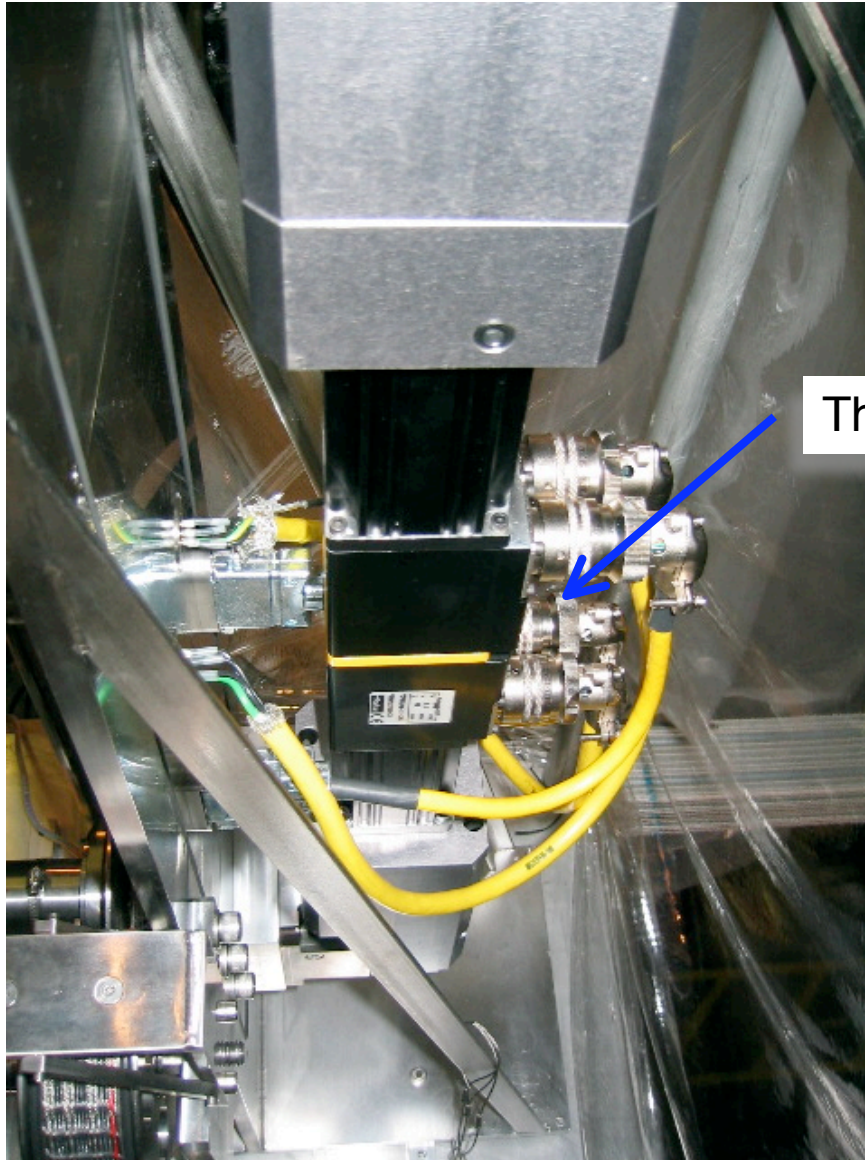
Lucite/acrylic

Viton

Titanium



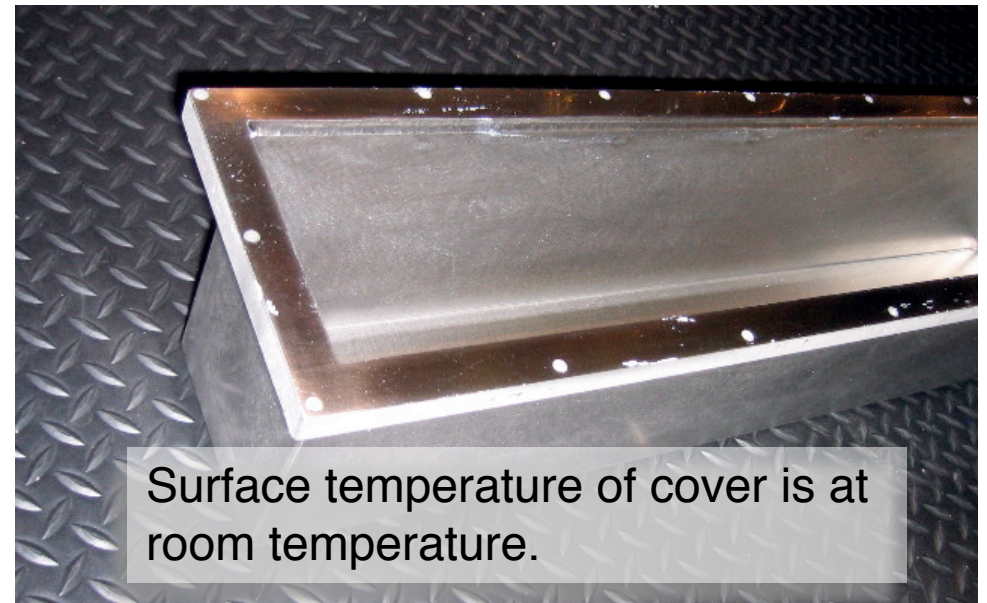
Electrical Parts Inside Glovebox



Motors

→ Fully enclosed in stainless vapor cover. Sealed with viton o-ring.

These cables are enclosed in vapor cover.



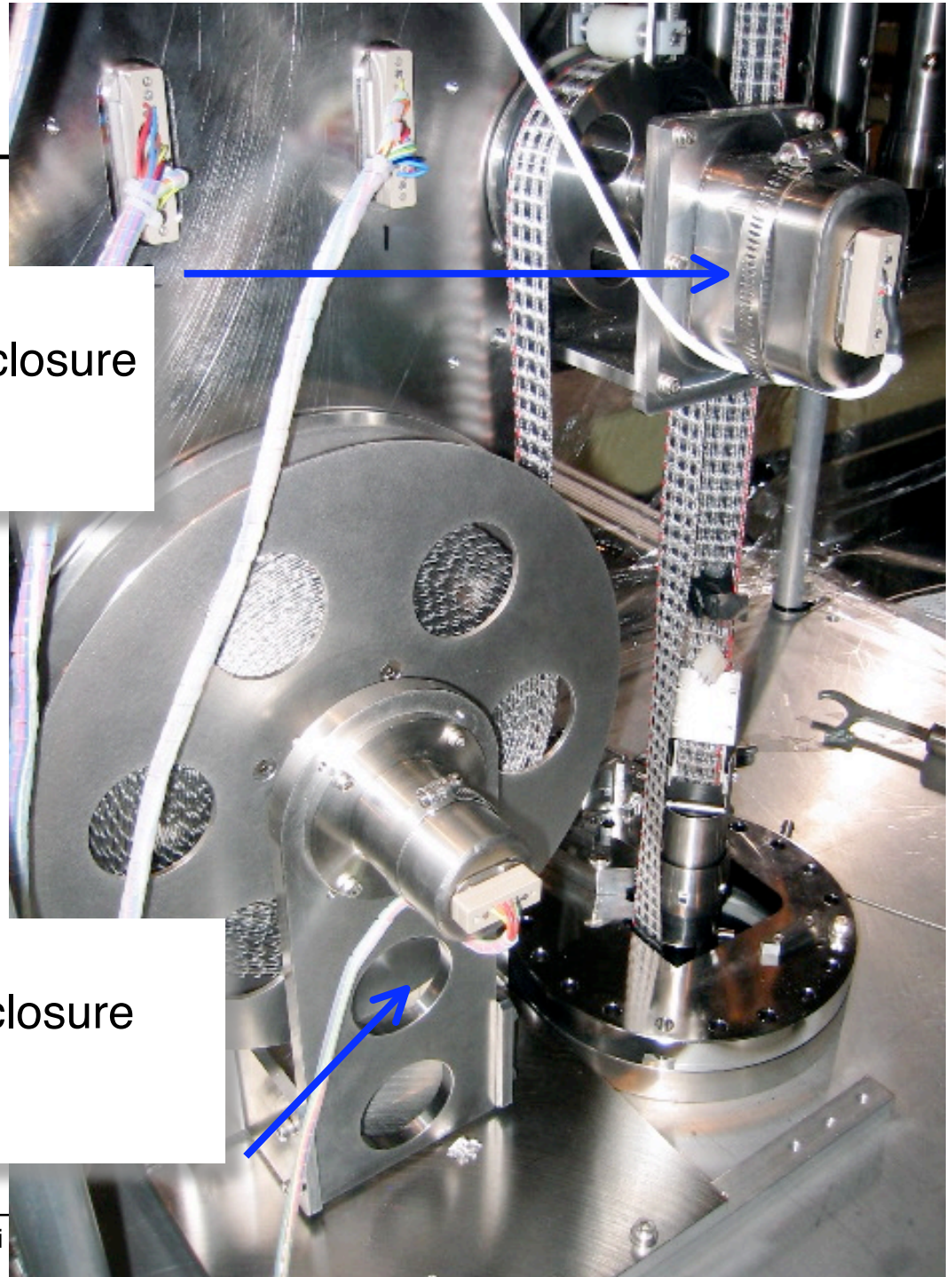
Slip Rings and Encoders

Encoders

enclosed in stainless enclosure
weld-in feedthrough
readout by teflon cable

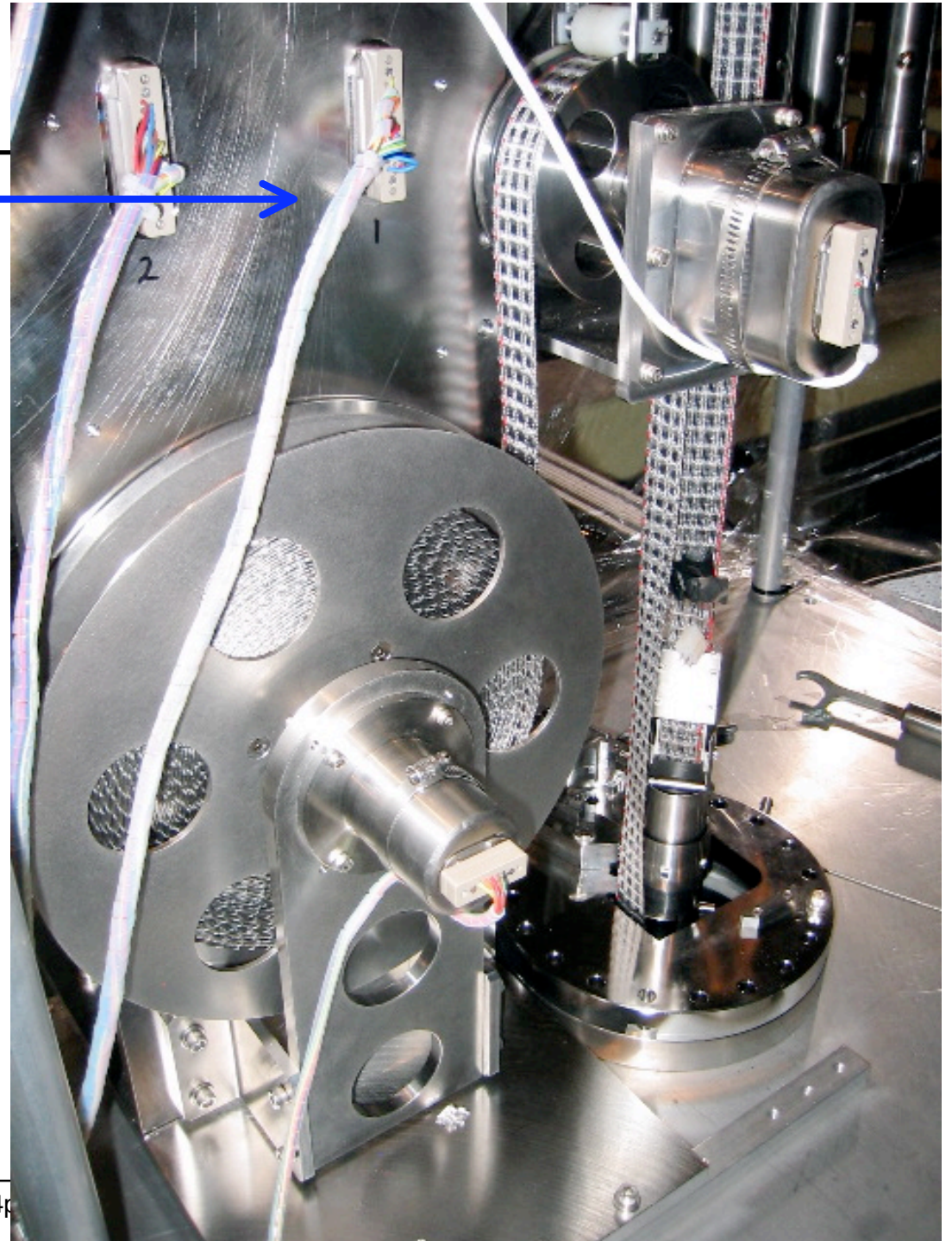
Slip rings

enclosed in stainless enclosure
weld-in feedthrough
readout by teflon cable



Motor Control Cables

Teflon cable



4pi Feedthrough Panel

Removable plate with viton seal

Weld-in feedthroughs



What do we need in the fire document ?

Let's make a list:

- Temperature measurement of motor cover.
- Note that glovebox is flushed any time motors are run.
- List of voltages and current limits on all wires.
- [nylon caps over D-sub connectors]